Nicholas Miklaucic

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Availability: July – December 2021
www.nicholas-miklaucic.com   https://github.com/nicholas-miklaucic

Education

Northeastern University, Boston, MA **September 2019 – Present**
Khoury College of Computer Sciences, Honors Program **May 2023**
Candidate for a Bachelor of Science degree in Data Science & Behavioral Neuroscience
GPA 3.69/4.00   CS GPA 3.93/4.00
Coursework: Artificial Intelligence, Information Presentation & Visualization, Database Design,
Neurobiology, Clinical Neuroanatomy, Organic Chemistry I

Phillips Academy Andover**,** Andover, MA **September 2015 – May 2019**
Coursework: Computational Neuroscience, Machine Learning, Linear Algebra, Multivariable Calculus

Computer Knowledge

Languages   *Proficient:*   Python, Rust, HTML/CSS/JS
                     Familiar: Haskell, Emacs Lisp, Java, C++
Libraries   numpy, pandas, matplotlib, seaborn, scipy, scikit_learn, PyMC, Django, Bootstrap, jQuery
Software   Jupyter, LaTeX, Tableau, Excel, Linux

Projects

Phillips Academy Capture the Flag **May 2018 – May 2019**
- Led team behind yearly cybersecurity competition for high schoolers from around world
- Managed sponsor relationships to maintain prize pool worth thousands of dollars
- Wrote over 20 original programming and cybersecurity problems using Python and Rust
- Administrated server and website, handling thousands of daily page hits during competition

Scarlet **January 2018 – March 2018**
- Developed open-source Rust library (4000+ downloads, 7000+ LOC) to model color for programmers
- Extensively researched psychophysics and color theory to ensure state-of-the-art accuracy
- Created API that allows any programmer to leverage latest in color theory without intensive background

Experience

Khoury College of Computer Sciences, Northeastern University **September 2020 – Present**
Course Assistant, Fundamentals of Computer Science I
- Hold weekly office hours and answer student questions
- Grade exams and weekly programming assignments, giving detailed written feedback
- Co-ran exam review sessions with hundreds of participants, answering student questions and working examples

Ethics Institute, Northeastern University
Research Assistant **April 2020 – Present**
- Visualize data to communicate research findings in upcoming publication (second author)
- Interpret and create statistics from psychology research experiments using Python, numpy, pandas, and seaborn
- Analyzed and compiled statistics from existing research for published literature review

LeanTaaS
Data Science Intern **July 2019 – September 2019**
- Created visualizations in Python allowing users to quickly diagnose and correct modeling errors in clinic simulations
- Created novel statistical measures to aggregate complex model diagnostics into single easy-to-interpret value

Software Engineering Intern **June 2018 – September 2018**
- Prototyped data collection web application (Django, Bootstrap, HTML/CSS/JS) now in use around US
- Output from data collection used to increase efficiency and patient care quality for over 100 doctors and 1000 patients across US

Interests

Hiking, reading fiction and history, crosswords, strategy games, listening to music